

نموذج توصيف مقرر
Course Description Form

Name of College\Faculty :

Faculty of Science

اسم الكلية:

Name of

Biological Science Department

اسم القسم العلمي:

Department

Course Name	علم وظائف أعضاء الحيوانات Animal physiology	اسم المقرر
Course No.	(0493) - 312	رقم المقرر
No. of Credits	3	عدد الوحدات
Theoretical Hours	2	عدد الساعات النظرية
Practical Hours	1	عدد الساعات المحلية
Course topics		مواضيع المقرر
1. Introduction to physiological principles 2. Physiological evolution of animals 3. Cell Physiology 4. Cell Signaling and Endocrine Regulation 5. Neuron Structure and Function 6. Cellular Movement and Muscles 7. Functional Organization of Nervous Systems 8. Circulatory Systems 9. Respiratory Systems 10. Locomotion 11. Ion and Water Balance 12. Digestion and energy metabolism 13. Thermal Physiology 14. Reproduction		

Text book: (Name, Author , Year , Publisher)	عنوان الكتاب : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)
Richard W. Hill, Gordon A. Wyse, Margaret Anderson. Animal Physiology, Latest (International) Edition. Sinauer Associates, Incorporated. USA. (2012)	
References: (Name , Author , Year . Publisher)	عنوان المرجع : (الاسم ، المؤلف ، سنة الطبع ، دار النشر)

Prerequisites				متطلبات المقرر	
Grading	Exams	20	%	الاختبارات	آلية رصد المقرر
	Quizzes		%	امتحانات قصيرة	
	Lab. Work	30	%	مختبر	
	Project (field study)	10	%	مشاريع (دراسة ميدانية)	
	Final	40	%	الاختبار النهائي	
	100%				

Course objectives					
No.	Course Objectives (Learning Outcomes)	Example(s) of relevant (Topics and activities)	Recommended Level to satisfy the objectives		
			High	Medium	Low
1	Rationalize the operation of the systems set for discussion.	Discuss system structure and function.	x		
2	Explain the organization of multisystem regulatory loops	Regulation of the blood pressure by the heart, kidney and the autonomic nervous system in mammals.	x		
3	Identify the basic concepts defining the physical operating characteristics of organ systems.	Calculating the glomerular filtration rate in the kidney, and determining the factors that influence the cardiac output.	x		



4	Discuss features that characterize animals, and give essential differences in body plan and organ systems among phyla that relate to physiology	The gas exchange in the gills of fish.	x		
5	Describe the physiological diversity among animals as a result of evolutionary processes.	Physiological diversity among animals due to the organization and evolution of nervous systems	x		
Fields					
Skills					
Coordinator (Name and Rank) :	Bedour Alsayegh (Assistant Prof.)				
Signature and stamp :	Bedour Alsayegh				
Date:	09 \ 11 \ 2025				